

Buccino, Dustin R (332K)

From: Buccino, Dustin R (332K) <Dustin.R.Buccino@jpl.nasa.gov>
Sent: Saturday, August 31, 2013 3:30 PM
To: rs@list.jpl.nasa.gov
Subject: CAS ORT Report: S80 2013/243 DSS-25

CAS OORT Report: S80/243 DSS-25 (shadow DSS-14)

Dustin provided support for this activity.

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13 243 1730 1900 0400 0415 DSS-25 CAS RS197-OCCORT MC 5815
N748 1A1
13 243 1800 1900 0400 0415 DSS-14 CAS TKG PASS 5815
N003 1A1
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DSS-25 ORT, August 31, 2013 PDT, 2013/243 UTC

BOA: 17:30

BOT: 19:00

EOT: 04:00

EOA: 04:15

Pass Number: 0243

DSS-25 (shadow)

X-band (DCC-8, RSR2A, fgain 38)

Ka-band (DCC-7, RSR2B, fgain 55)

DSS-14 (prime)

X-band (DCC-3, RSR1A, fgain 48)

- Weather: Clear
- Wind: 9 mph out of SW
- Equipment: Green

17:30 - Arrival at Ops Room. Voice check w/ ACE, Briefing message.

18:00 - DSS-14 Briefing message.

18:27 - Tried to load Ka-band (RSR2B), gconnect kept returning 'killed' notification and didn't connect. Used a different screen then it worked.

18:37 (25): AOS, X-band

18:40 (14): AOS, X-band

18:50 (14): Record subch1

18:50 (25): Record subch1 (X-band, Ka-band), Record subch2 (Ka-band)

18:55 (14): DCC in lock, X-band

19:59 (25): AOS, Ka-band, residual = 622 Hz
19:00 (25, 14): TLM ON, X-band
19:00 (25): sfro 1 600, sfro 2 600
19:01 (25, 14): All signals in DCC lock, TLM lock
19:02 (25): Monopulse enabled. No visible jump in Ka-band power
19:05 (25): Monopulse corrections, Azimuth correction -0.83 mdeg, Elevation correction -1.42 mdeg, Elevation 11.96 deg
19:20 (25): Pc/No X-band 30.60 dB-Hz, Ka-band 43.17 dB-Hz
19:20 (14): Pc/No X-band 36.73 dB-Hz
19:21 (25): SNT X-band 33.905 K, Ka-band 108.369 K
19:21 (14): SNT X-band 28.264 K
20:25 (25): Station contacts ACE requesting monopulse on/off times. ACE gives OK for on-point phase cal at 21:50 and directly after coherent switch.
20:26 (25): Pc/No X-band 31.38 dB-Hz, Ka-band 45.42 dB-Hz. Appears spacecraft rolling.
20:27 (25): SNT X-band 28.733 K, Ka-band 96.999 K
20:27 (14): Pc/No X-band 37.68 dB-Hz
20:28 (14): SNT X-band 22.596 K
20:30 (25): Monopulse corrections, Azimuth correction 5.83 mdeg, Elevation correction -1.52 mdeg, Elevation 26.77 deg
21:34 (25): Pc/No X-band 32.39 dB-Hz, Ka-band 46.33 dB-Hz
21:35 (25): SNT X-band 27.438 K, Ka-band 68.879 K
21:36 (25): Monopulse corrections, Azimuth correction 8.09 mdeg, Elevation correction -1.46 mdeg, Elevation 35.83 deg
21:37 (14): Pc/No X-band 38.90 dB-Hz
21:37 (14): SNT X-band 26.283 K
21:55 (25): On point phase cal started, monopulse disabled, corrections kept (Az=7.22, El=-3.41)
22:03 (14, 25): AOS, X-band, 2W & 3W/14
22:04 (25): AOS, Ka-band, 3W/14
22:04 (14): X-band Back in lock
22:05 (25): X-band and Ka-band back in lock
22:10 (25): Monopulse enabled, offsets cleared, verified corrections updating.
22:15 (25): Monopulse corrections, Azimuth correction 6.87 mdeg, Elevation correction -3.83 mdeg, Elevation 39.80 deg
22:15 (14): Pc/No X-band 39.01 dB-Hz
22:15 (14): SNT X-band 19.722 K
22:29 (25): Pc/No X-band 32.06 dB-Hz, Ka-band 43.34 dB-Hz
22:20 (25): SNT X-band 27.102 K, Ka-band 75.505 K
22:26 (14, 25): Nominal tracking, off net. Gave ACE phone # if issue arises.

Data to be played back to /rssg/data/CAS/2013_243/ORT/RSR/:

DSS-25, X-band, RCP, 1-way & 3-way w/ 14
RSR2A, 1kHz, 16-bits
Start: 2013/243-18:50:00
Stop: 2013/244-04:05:00

DSS-25, Ka-band, RCP, 1-way & 3-way w/ 14
RSR2B: 1kHz, 16-bits
Start: 2013/243-18:50:00
Stop: 2013/243-04:05:00

DSS-25, Ka-band, RCP, 1-way
RSR2B: 2kHz, 16-bits
Start: 2013/243-18:50:00
Stop: 2013/243-22:02:14

DSS-14, X-band, RCP, 1-way & 2-way
RSR2B: 1kHz, 16-bits
Start: 2013/243-18:50:00
Stop: 2013/244-04:05:00

158 MON data will be queried and monopulse file generated and sent to David and rs@list at 9:15PM PST tonight (2013/244-04:15 UTC).